AgriProfit#

Benchmarks for Alberta Cattlemen

Economic, Productive & Financial Performance Of Alberta Cow/Calf Operations

Comparing:

Central Alberta Total, Central Alberta Low Cost, and 5 Year Central Alberta Low Cost Management Groupings

(combining Aspen Parkland & portions of Boreal Transition Grass Types)

Production Year - 2010

October, 2012



Economics & Competitiveness



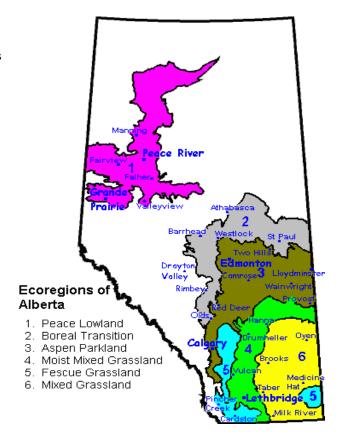
Forward

This *AgriProfit* Cost & Returns Report presents the productive, economic & financial performance of cow/calf producers in the Central Region for the 2010 production year.

Field research was undertaken through Alberta Agriculture's *AgriProfit*\$ Business Analysis & Research program with the cooperation of producers in the region.

The intent of this report is to benchmark three specific management groupings:

- a regional average including all *AgriProfit\$* participants in the Aspen Parkland & portions of the Boreal Transition grass types.
- an average of the "low cost" herds in the region during 2010. This "**Low Cost**" average includes the lower 50% of producers in the pool as ranked by total costs / lb. of calf weaned*.
- a five year average of the "low cost" herds in Central Alberta. This long term average includes producers in the lower half of each year group as ranked by total costs / lb. of calf weaned.



Cost and returns profiles for common forage and grazing crops in the grass type / region are included in this benchmark report in order to put these profit centers into context with the cow herd profiles they support. A list of definitions for common terms employed in this benchmark report is also appended.

The primary value of this report is to enable producers to gauge their productive, economic and financial performance relative to their peers locally and provincially. Benchmark analysis, comparing to one's own detailed cost and returns analysis, is the first critical step in identifying operational strengths and weaknesses in a cow/calf operation.

The map above illustrates the location of each grass type region within Alberta. This package only reports the results of one specific grass type region. If you are interested in obtaining information on specific regions, please contact the Economics Unit at:

J.G. O'Donoghue Building #302, 7000 - 113 Street Edmonton, Alberta T6H 5T6 Tel: (780) 422-3771 Fax: (780) 427-5220

- * For this analysis total production cost **(TPC)** per lb. weaned was the primary criteria for identifying the top management herd groupings. It should be noted, however, that there are several other factors that may contribute to the success of a cow/calf operation.
- **Note: Regional & top management groups had sufficient full farm observations to develop the farm financial benchmarks only these are used to develop the farm level financial performance indicators. Enterprise productive & economic information is developed based upon the whole Alberta sample.

Dale A. Kaliel
Sr. Economist: Production Economics
Alberta Agriculture, Food & Rural Development
October-12



CAD EV

Historical Review of Alberta Cow/Calf Operations Economic, Financial & Productive Performance: 2006 - 2010

Benchmark Comparables: Central Alta vs. '06-10 C. Alta 5 Year Low TPC Group Enterprise Type: Weaned-Calf

			C.AB 5Yr			
	2006	2007	2008	2009	2010	Low TPC
Weaned Calf Value	1.091	0.946	0.963	0.992	1.172	1.023
Winter Feed & Bedding Costs	0.455	0.451	0.452	0.572	0.531	0.364
Pasture Costs	0.355	0.424	0.401	0.405	0.420	0.378
Labour Costs	0.097	0.088	0.096	0.084	0.082	0.079
Other Variable Costs	0.154	0.151	0.149	0.137	0.139	0.133
Fixed Costs	0.098	0.103	0.096	0.090	0.086	0.077
Total Production Costs	1.159	1.217	1.194	1.287	1.258	1.032

Farm Financial Performance Indicators:

						C.AB 5Yr	
ROAD to Profitability	2006	2007	2008	2009	2010	Low TPC	
Risk (Debt to Asset Ratio)	0.13	0.14	0.14	0.17	0.18	0.19	
Operating Expense Ratio	0.65	0.66	0.65	0.59	0.52	0.59	
A sset Return	0.01	0.01	0.02	0.03	0.04	0.02	
D ebt Payout	9.44	10.03	6.54	4.87	3.91	6.57	
to Profitability The "3-C's"	34,285	35,576	55,622	88,100	123,561	65,925	
Current Ratio	2.88	3.65	3.04	3.19	3.44	4.84	
Calif. Working Cap. Ratio	1.12	1.21	0.79	0.84	0.94	1.18	
Capital Turnover Rato	0.11	0.10	0.13	0.15	0.14	0.13	
Farm Size (Acres)	2,139	2,405	2,523	2,855	2,409	2,131	

Debt to Assets = Total Liabilites / Total Assets
Operating Expense Ratio = Operating Expenses / Value of Production
Return on Assets = Return on Assets / Total Farm Assets
Debt Payout = Total Liabilities / Net Farm Income
Profitability = Net Farm Income

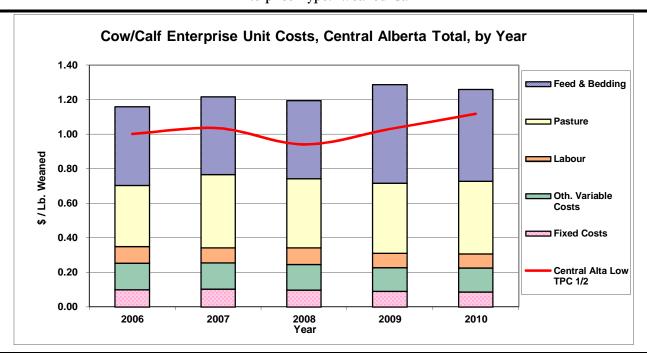
Current Ratio = Current Assets / Current Liabilities
Calif. Working Cap. Ratio = Working Capital / Total Expenses
Capital Turnover = Value of Production / Total Farm Assets
Farm Size = Total Acres in crops, forages & grazing
(includes all acres owned, rented & leased)

Productive Performance Indicators:						C.AB 5Yr
	2006	2007	2008	2009	2010	Low TPC
Calf Crop (%)	87.1	81.7	83.6	84.7	82.8	87.1
Lbs. Weaned/Cow Wintered	547.8	534.4	548.2	510.2	549.8	575.7
Wean Wt as a % of Cow Wt.	42.6	42.6	43.6	41.5	44.9	45.0
Feeding Season Days	181.7	162.8	157.8	167.6	165.2	154.8
Tonnes Fed per Cow (as fed)	5.8	5.5	4.9	5.2	4.5	4.3
G rowth (weaning weight)	562.4	572.8	580.0	539.1	597.5	590.2
O pen Cows (%)	9.7	11.1	12.7	8.7	11.1	10.0
L ength of Calving Period	148.1	115.6	111.2	103.2	105.1	104.1
D eath Loss of Calves (%)	3.6	6.1	2.6	4.9	4.0	3.0

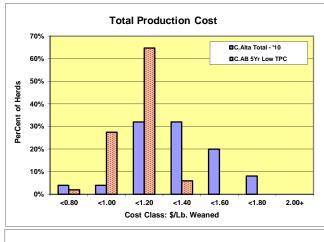


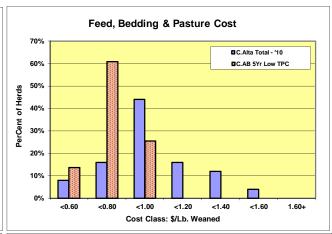
Historical Review of Alberta Cow/Calf Operations (cont'd)

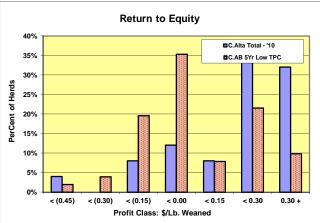
Benchmark Comparables: Central Alta, by Year Enterprise Type: Weaned-Calf

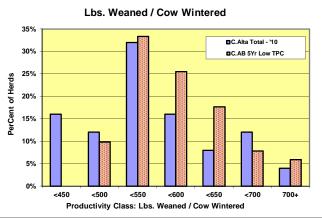


Frequency Distributions: Selected Economic & Production Indicators, Central Alberta Total, 2010 vs. 5 Year C. Alta Low Cost Group









Page 3



Economic & Physical Performance Comparisons

Benchmark Comparables: Central Alta Total & Low Cost; C. Alta 5 Year Low TPC Groups

Enterprise Type: Weaned-Calf

Economic Performance Indicators:

	\$ / Lb. Weaned			
		Central Alta	C.AB 5Yr	
	Total	Low TPC	Low TPC	
Production Stock Sales	1.172	1.123	1.024	
Value of Production	1.450	1.380	1.017	
Winter Feed Costs	0.497	0.413	0.350	
Bedding Costs	0.034	0.013	0.014	
Pasture Costs	0.420	0.408	0.378	
Labour Costs	0.082	0.075	0.079	
Other Variable Costs	0.139	0.131	0.133	
Depreciation & Capital Lease Payments	0.065	0.055	0.056	
Other Fixed Costs	0.021	0.022	0.021	
Total Cash Costs	1.124	0.992	0.900	
Total Production Costs	1.258	1.117	1.032	
Contribution Margin	0.278	0.339	0.062	
Gross Margin	0.326	0.388	0.116	
Return to Investment	0.200	0.268	(0.006)	
Return to Equity & Management	0.192	0.263	(0.015)	
Total Investment (\$ / cow wintered)	1,833	1,811	1,545	

Physical Performance Indicators:

	(Central Alta	C.AB 5Yr		(Central Alta	C.AB 5Yr
	Total	Low TPC	Low TPC		Total	Low TPC	Low TPC
Conception Rate (%)	86.5	88.8	89.3	Cows Wintered	168.4	157.5	177.4
Calving Rate (%)	98.4	99.6	99.8	Cows per Bull	23.0	22.4	24.5
Weaning Rate (%)	97.2	99.3	97.8	Labour Hours per Cow	4.3	4.4	4.5
Calf Crop (%)	82.8	87.8	87.1	AUM's/Cow Wintered	9.7	10.1	9.8
% Calved - 1st 2 Cycles	84.3	87.5	85.4	Feeding Season Days	165.2	158.6	154.8
Lbs. Weaned/Cow Exposed	494.4	521.9	514.0	Tonnes Fed per Cow			
Lbs. Weaned/Cow Wintered	549.8	583.1	575.7	- as-fed	4.5	4.1	4.3
Wean Wt as a % of Cow Wt.	44.9	45.0	45.0	- dry matter			
Weight per Day of Age (lbs.)	2.57	2.78	2.69				

	(C.AB 5Yr		
	Total	Low TPC	Low TPC	
G rowth (weaning weight)	597.5	594.7	590.2	
O pen Cows (%)	11.1	10.0	10.0	
L ength of Calving Period	105.1	94.5	104.1	
D eath Loss of Calves (%)	4.0	2.9	3.0	

Page 4



Economic & Financial Performance Comparisons

Benchmark Comparables: Central Alta Total & Low Cost; C. Alta 5 Year Low TPC Groups

Enterprise Type: Weaned-Calf

Economic Performance Indicators:

	\$ / Cow Wintered			
		Central Alta	C.AB 5Yr	
	Total	Low TPC	Low TPC	
Production Stock Sales	644.08	654.78	589.42	
Value of Production	797.32	804.67	585.26	
Winter Feed Costs	273.46	240.84	201.33	
Bedding Costs	18.62	7.70	8.08	
Pasture Costs	230.74	237.71	217.83	
Labour Costs	44.93	43.93	45.59	
Other Variable Costs	76.66	76.59	76.72	
Depreciation & Capital Lease Payments	35.66	32.11	32.53	
Other Fixed Costs	11.62	12.63	11.83	
Total Cash Costs	618.10	578.31	518.28	
Total Production Costs	691.69	651.52	593.91	
Contribution Margin	152.91	197.89	35.71	
Gross Margin	179.22	226.36	66.97	
Return to Investment	110.17	156.35	(3.65)	
Return to Equity & Management	105.63	153.15	(8.65)	

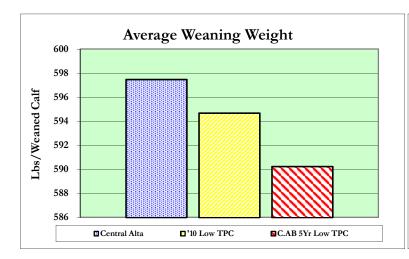
Financial Performance Indicators:

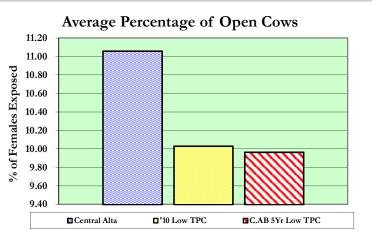
ROAD to Profitability		Central Alta	C.AB 5Yr	
	Total	Low TPC	Low TPC	
Risk (Debt to Asset Ratio)	0.18	0.23	0.19	= Total Liabilites / Total Assets
Operating Expense Ratio	0.52	0.58	0.59	= Operating Expenses / Value of Production
A sset Return	0.04	0.03	0.02	= Return on Assets / Total Farm Assets
D ebt Payout	3.91	6.43	6.57	= Total Liabilities / Net Farm Income
to P rofitability	123,561.30	89,362.24	65,924.80	= Net Farm Income
The "3-C's"				
Current Ratio	3.44	3.92	4.84	= Current Assets / Current Liabilities
C alif. Working Cap. Ratio	0.94	0.85	1.18	= Working Capital / Total Expenses
Capital Turnover Rato	0.14	0.14	0.13	= Value of Production / Total Farm Assets
Farm Size (Acres)	2,409	2,189	2,131	= Total Acres in crops, forages & grazing (includes all acres owned, rented & leased)

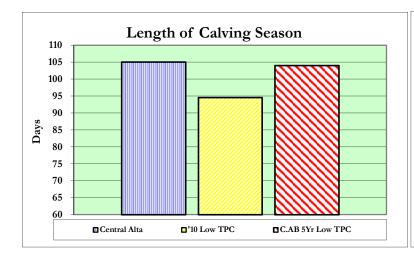


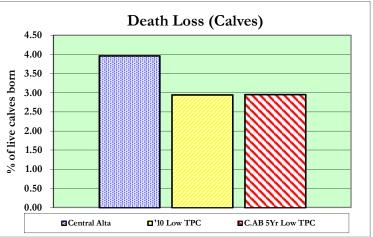
Physical Performance Comparisons

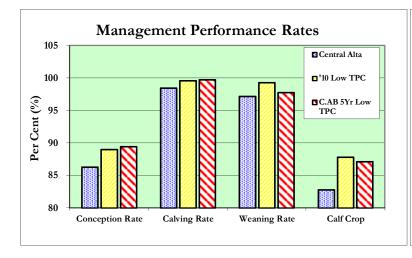
Benchmark Comparables: Central Alta Total & Low Cost; C. Alta 5 Year Low TPC Groups

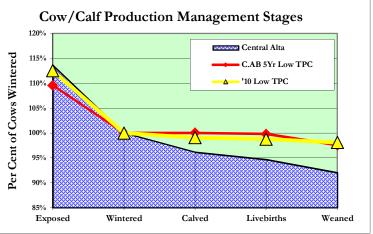








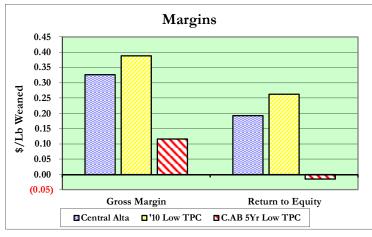


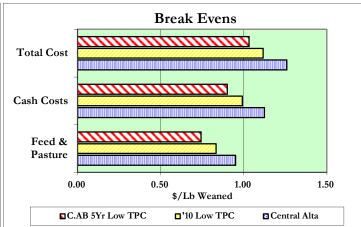


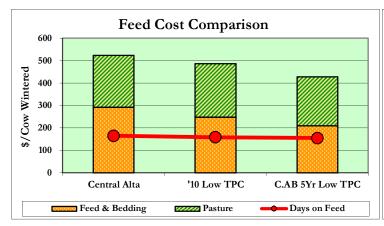


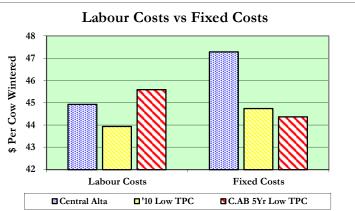
Economic Performance Comparisons

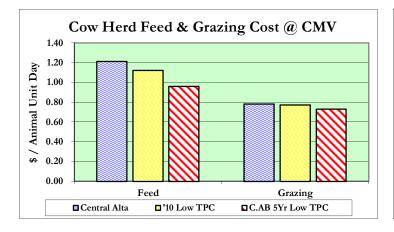
Benchmark Comparables: Central Alta Total & Low Cost; C. Alta 5 Year Low TPC Groups

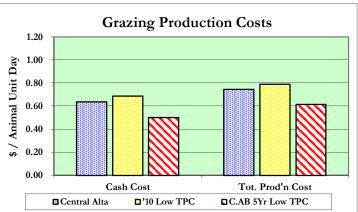














AgriProfit# Cow/Calf Enterprise Unit Cost & Returns Detail - 2010

Economic Performance Comparisons

	<u>Total</u>	Central Alta Low TPC \$/Lb Weaned	C.AB 5Yr Low TPC
(A)		•	
1. Weaned Calves	1.17	1.12	1.02
2. Feeder Calves	0.00	0.00	0.00
3. Slaughter Cattle	0.00	0.00	0.00
4. Purebred Calves	0.00	0.00	0.00
5. Baby Calves	0.00	0.00	0.00
6. Cull Cows/Open Heifers	0.17	0.18	0.16
7. Bulls	0.02	0.02	0.02
8. Bred Cows/Bred Heifers	0.03	0.02	0.05
Miscellaneous Receipts	0.00	0.00	0.00
10. Government Programs	0.00	0.00	0.00
11. Inventory Adjustment	0.37	0.33	0.08
12. Less: Cattle Purchases	0.31	0.29	0.32
Value of Production	1.45	1.38	1.02
(B)	1.40	1.00	1.02
1. Winter Feed	0.50	0.41	0.35
2. Bedding	0.03	0.01	0.00
3. Pasture	0.42	0.41	0.38
Veterinary & Medicine	0.42	0.03	0.03
Veterinary & Nederline Breeding Fees/Bull Rental	0.00	0.00	0.00
Trucking & Marketing Charges	0.00	0.00	0.00
7. Fuel	0.02	0.02	0.02
	0.02		
8. Repairs - Machine		0.01	0.01
9. Repairs - Corrals & Buildings	0.01	0.01	0.01
10. Utilities & Miscellaneous Expenses	0.02	0.03	0.03
11. Custom Work & Specialized Labour	0.01	0.01	0.01
12. Operating Interest Paid	0.00	0.00	0.00
13. Paid Labour & Benefits	0.01	0.00	0.00
14. Unpaid Labour	0.07	0.07	0.08
Variable Costs	1.17	1.04	0.95
(C)			
Share/Lease Cattle Payments	0.00	0.00	0.00
2. Taxes, Water Rates, Lic. & Insurance	0.01	0.02	0.01
Equipment & Building a) Depreciation	0.06	0.06	0.06
b) Lease Payments	0.00	0.00	0.00
4. Paid Capital Interest	0.01	0.01	0.01
Total Capital Costs	0.09	0.08	0.08
(D) Cash Costs (B+C-B14-C3)	1.12	0.99	0.90
(E) Total Production Costs (B+C)	1.26	1.12	1.03
(F) Gross Margin (A-D)	0.33	0.39	0.12
Return to Unpaid Labour (A-D+B14)	0.26	0.33	0.06
Return to Investment (A-E+C4)	0.20	0.27	(0.01)
Return to Equity (A-E)	0.19	0.26	(0.02)



Cow/Calf Enterprise Unit Cost & Returns Detail - 2010

Economic Performance Comparisons

	<u>Total</u>	Central Alta Low TPC \$/Cow Wintered -	C.AB 5Yr Low TPC
(A)		·	
1. Weaned Calves	644.08	654.78	589.18
2. Feeder Calves	0.00	0.00	0.00
3. Slaughter Cattle	0.00	0.00	0.00
4. Purebred Calves	0.00	0.00	0.00
5. Baby Calves	0.00	0.00	0.24
Cull Cows/Open Heifers	94.77	105.30	94.03
7. Bulls	9.38	8.75	9.81
Bred Cows/Bred Heifers	15.65	12.32	28.68
Miscellaneous Receipts	0.12	0.25	0.22
10. Government Programs	0.69	1.09	0.69
11. Inventory Adjustment	201.58	192.63	46.32
12. Less: Cattle Purchases	168.95	170.45	183.90
Value of Production	797.32	804.67	585.26
(B)			
Winter Feed	273.46	240.84	201.33
2. Bedding	18.62	7.70	8.08
3. Pasture	230.74	237.71	217.83
4. Veterinary & Medicine	20.03	18.30	19.55
Breeding Fees/Bull Rental	0.04	0.04	0.38
Trucking & Marketing Charges	12.53	10.30	12.18
7. Fuel	11.85	14.06	11.88
8. Repairs - Machine	8.74	8.15	7.70
Repairs - Corrals & Buildings	3.83	4.15	4.59
Utilities & Miscellaneous Expenses	13.33	16.70	14.96
Custom Work & Specialized Labour	4.13	3.70	3.77
12. Operating Interest Paid	2.19	1.19	1.71
13. Paid Labour & Benefits	6.10	2.83	2.32
14. Unpaid Labour	38.83	41.09	43.27
Variable Costs	644.41	606.78	549.55
(C)			
 Share/Lease Cattle Payments 	0.28	0.58	0.88
2. Taxes, Water Rates, Lic. & Insurance	6.80	8.85	5.96
3. Equipment & Building a) Depreciation	34.76	32.11	32.35
b) Lease Payments	0.90	0.00	0.17
Paid Capital Interest	4.54	3.19	5.00
Total Capital Costs	47.28	44.74	44.36
(D) Cash Costs (B+C-B14-C3)	618.10	578.31	518.28
(E) Total Production Costs (B+C)	691.69	651.52	593.91
(F) Gross Margin (A-D)	179.22	226.36	66.97
Return to Unpaid Labour (A-D+B14)	144.47	194.25	34.62
Return to Investment (A-E+C4)	110.17	156.35	(3.65)
Return to Equity (A-E)	105.63	153.15	(8.65)
Total Investment	1,832.54	1,811.46	1,544.61



2010 Forage & Pasture Enterprise Cost & Returns Analysis Central Alta

		Forages			Pastures Alfalfa Tame		
		Alfalfa	Mixed	Grain	/Grass	/Native	Swath
		/Grass Hay	Grass Hay	Silage	Pasture	Mixed	Grazing
	Average field size (acres)	63.4	33.4	62.3	72.5	193.1	44.3
	Number of Observations	65	9	25	34	76	22
			\$/Tonne			\$/AUM	
(A) 1.	Crop Sales	67.79	74.10	44.38	25.05	22.70	27.38
2.	Crop Insurance Receipts	0.04	0.00	0.00	0.60	0.84	1.84
3.	Miscellaneous Receipts	0.00	0.00	0.00	0.00	0.00	0.00
4.	Government Programs	0.00	0.00	0.00	0.00	0.00	0.00
5.	Straw / Aftermath Grazing	1.76	1.36	0.43	0.00	0.04	0.00
	Gross Return	69.58	75.46	44.81	25.65	23.59	29.22
(B) 1.	Seed	0.00	0.00	1.89	0.00	0.00	2.44
2.	Fertilizer	1.91	8.54	6.16	0.00	0.00	5.88
3.	Chemicals	0.00	0.00	2.21	0.00	0.00	1.61
4.	Crop Insurance Premiums	1.48	0.00	0.99	0.73	0.56	1.10
5.	Trucking & Marketing	0.00	0.00	0.00	0.00	0.00	0.00
6.	Fuel	4.48	6.74	3.28	0.57	1.86	1.10
7.	Irrigation Fuel & Electricity	0.00	0.00	0.00	0.00	0.00	0.00
8.	Repairs - Machinery	5.01	6.71	1.51	0.37	1.36	0.18
9.	Repairs - Buildings	0.35	0.00	0.06	0.45	0.63	0.20
	Utilities & Misc. Expenses	3.18	3.76	1.05	0.50	1.12	0.22
	Custom Work & Specialized Labour	1.36	0.00	2.93	0.00	0.00	1.41
	Operating Interest Paid Paid Labour & Benefits	0.58 0.67	2.81 3.33	0.13 0.14	0.02	0.27	0.04
	Unpaid Labour	6.06	8.09	2.26	0.18 1.33	0.59 2.41	0.10 0.80
14.	Variable Costs	25.09	39.98	22.62	4.15	8.79	15.08
		20.00					
(C) 1.	Cash/Share Rent & Land Lease	9.97	14.74	3.14	2.31	10.86	1.18
2.	Taxes, Water Rates, Lic. & Insurance	2.46	3.70	0.90	1.11	2.04	0.64
3.	Equip. & Bldg. a) Depreciation	11.46	16.75	3.17	0.69	1.67	0.39
_	b) Lease Payments	0.09	0.00	0.05	0.00	0.13	0.01
4.	Paid Capital Interest	3.62	1.59	0.75	2.71	1.83	1.64
	Total Capital Costs	27.60	36.78	8.02	6.81	16.52	3.84
(D)	Cash Costs (B+C-B14-C3)	35.17	51.93	25.21	8.94	21.23	17.74
(E)	Total Production Costs (B+C)	52.70	76.76	30.64	10.96	25.31	18.93
(F)	Gross Margin (A-D)	34.42	23.53	19.60	16.70	2.35	11.47
` ,	Return to Unpaid Labour (A-E+B14)	22.95	6.78	16.42	16.01	0.69	11.09
	Return to Investment (A-E+C4)	20.50	0.29	14.91	17.39	0.10	11.93
	Return to Equity (A-E)	16.89	(1.30)	14.17	14.69	(1.72)	10.29
	Return on Investment (%)	4.0	0.0	11.5	4.1	0.0	3.6
	Total Investment (\$/acre)	873.25	928.27	960.60	890.62	494.77	1,680.54
	Management						
	Yield per Acre (tonnes or AUM's)	1.71	1.32	7.43	2.11	0.97	5.08
	Expected Market Price (\$/unit)	67.79	74.10	44.38	25.05	22.70	27.38

^{*} Cost and returns profiles include/combine all tenure types ... owned, rented & leased.

Definitions & Explanations to Accompany the Cow/Calf Enterprise Overview

<u>Production Stock Sales</u> – revenues associated with the sale of weaned calves & other **non-breeding stock** related sales.

<u>Value of Production (VOP)</u> – the value of what was produced by the cow/calf enterprise over the course of the production year. Includes cash & non-cash values of:

- cull & breeding stock sales,
- revenues from miscellaneous sources (eg. Program payments, patronage refunds, etc) as allocated to the cow/calf enterprise,
- inventory adjustments relating changes in the number & value of stock included in the enterprise,
- an adjustment for livestock purchases (value is added only from the point of purchase forward)

<u>Winter Feed Costs</u> – the cost of all feeds used by the cow/calf enterprise, purchased or homegrown, based on the market value of these feeds (**not** the cost of raising the feeds).

<u>Pasture Costs</u> – the value of grazing used by the cow/calf enterprise (exclusive of any other retained ownership/backgrounding uses). Pasture is valued into the cow/calf enterprise at market value (**not** cost) & is treated as a "cash" cost.

<u>Labour Costs</u> – a sum of paid & contributed labour, as allocated to the cow/calf enterprise. Paid labour is valued at cost, while unpaid labour is valued at a standard or base cost.

<u>Depreciation & capital Lease Payments</u> – sum of depreciation & mach./equip't/bldg. lease payments on assets allocated to the cow/calf enterprise.

Other Fixed Costs – total cash overheads, as allocated to the cow/calf enterprise (share/lease cattle payments, property taxes, insurances, licenses & term loan interest).

<u>Total Cash Costs</u> – sum of enterprise cash costs, considering home grown feeds, bedding & pasture as cash costs.

<u>Total Production Costs</u> – sum of all variable& fixed production costs.

Contribution Margin - VOP less Variable Costs

<u>Gross Margin</u> – VOP less Total Cash Costs

<u>Return to Investment</u> – VOP less Total Production Costs Plus Term (Capital) Interest Paid

<u>Return to Investment</u> – VOP less Total Production Costs Plus Term (Capital) Interest Paid

<u>Return to Equity & Management</u> – VOP less Total Production Costs.

<u>Investment</u> – sum of assets allocated to the enterprise. Includes: breeding stock, machinery, equipment, buildings/facilities & building site (only)

Breeding Performance Rates

(adjusted for sales & purchases of bred cattle)

Conception rate (%) - # Bred / # Exposed

Calving Rate (%) - # Livebirths / # Bred Females

Weaning Rate (%) - # Weaned / # Exposed

<u>Calved in 1st 2 Cycles (%)</u> - # Calved Cycle 1 & 2

Total Calved

<u>Lbs, Weaned/Cow Exposed</u> - <u>Total Lbs. Weaned</u>

Females Exposed

<u>Lbs. Weaned/Cow Wintered</u> - <u>Total Lbs. Weaned</u>

Bred Females Exposed

Weaned Wt. As % of Cow Wt. - As (adjusting bred heifer wts.)

Avg. Lbs. Weaned Avg. Mature Cow Wt.

Weight per day of Age (lbs.) – Avg. Lbs. Weaned Wtd Avg Wean Age

Cows Wintered – Open Inventory of Bred Cows & Heifers

Cows / Bulls - # Cows & Heifers Exposed / # Bulls Used

Labour Hours / Cow - Total Labour Hrs / Cows Wintered

AUM's / Cow Wintered – Total Enterprise AUM's
Cows Wintered

Feeding Season Days - Days Fed (in yard)

Tonnes fed per Cow -

As fed Tonnes Total Feed (As-Fed)

Cows Wintered

Dry Matter Tonnes Total Feed (Dry Matter)

Cows Wintered

GOLD Indicators

Growth (Wean wt.) - <u>Total Lbs.Weaned</u>

Calves Weaned

Open Cows (%) - # Open Cows & Heifers

Exposed

Length of Calving Period – Days from 1st to last calf

Death Loss of Calves (%) - # Calves Died

Live Births